

Claims

The claims are amended as follows:

1. (Currently Amended) A mobile terminal having ~~an image processing function~~ a PC camera function, comprising:
 - an image sensor for obtaining an image;
 - an image digital processing (DSP) unit for formatting the image into specific image format data;
 - a memory unit for storing the specific image format data;
 - ~~an interface unit for transmitting the specific image format data to an external unit~~ USB interface for connecting with a personal computer through USB lines having a plurality of paths;
 - and
 - a first switch for allowing the data stored in the memory to be transmitted to the personal computer through a first path of the USB lines;
 - a second switch for allowing the specific image format data to be transmitted to the personal computer through a second path of the USB lines; and
 - a control unit for generating a control signal signals controlling the first switch and the second switch ~~allowing the specific image format data to be transmitted to the external unit.~~
2. (Canceled)
3. (Canceled)
4. (Canceled)
5. (Canceled)
6. (Canceled)
7. (Canceled)

8. (Currently Amended) The mobile terminal as recited in claim 1, wherein the image DSP unit includes:

a YUV data processing portion for generating YUV data based on the image received from the image sensor;

an image parallel processing portion for receiving the YUV data and generating preview image data based on the YUV data; and

an encoding unit for encoding the YUV data, generating encoded data, and transmitting the encoded data through the ~~switches~~ second path of the USB lines by controlling of the control unit ~~based on the PC camera signal.~~

9. (Original) The mobile terminal as recited in claim 8, wherein the encoding unit includes a Joint Photographic Coding Experts Group (JPEG) codec.

10. (Original) The mobile terminal as recited in claim 8, wherein the encoding unit includes a Moving Picture Experts Group (MPEG) codec.

11. (Currently Amended) The mobile terminal having an image processing function as recited in claim 1, wherein the image DSP unit includes: a basic clock generation unit for generating a basic clock for the image DSP unit; and a phase locked loop (PLL) for generating a USB clock for the ~~interface unit~~ USB interface.

12. (Currently Amended) A method for performing ~~an image processing~~ a PC camera function in a mobile terminal, comprising the steps of:

a) connecting with a personal computer through USB lines having a plurality of paths;

a) ~~b)~~ generating a transmission control signal according to a kind of transmission data to be transmitted to the personal computer;

~~b)~~ c) if the transmission data is data stored in a memory of the mobile terminal, transmitting the data through a ~~switching unit~~ first path of the USB lines to an external unit the personal computer based on a PC link signal; and

e) ~~d)~~ if the transmission data is image data captured in an image sensor, converting the image data to YUV data, encoding the YUV data to generate encoded data and transmitting the

encoded data to the external unit personal computer through the switching unit a second path of the USB lines based on a PC camera signal.

13. (Currently Amended) The method as recited in claim 12, further comprising the step of ~~d)~~ e) if a preview function is selected, displaying the YUV data on a display unit.

14. (Canceled)

15. (Canceled)

16. (Canceled)